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COUNTRY Romania

CONFIDENTIAL

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SUBJECT Electrical Standards Established  
by the Ministry of Electrical  
Energy

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SUPPLEMENT TO  
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1. Since 1949 the Ministry of Electrical Energy has established about 700 standards for electrical equipment and cables carrying electrical energy. The standards thus far are "for recommendation" or those with the power of law.
2. In setting up the standards the old Rumanian ones were used in addition to the German (VDE-Din), Swiss, English, Belgian, Italian, Hungarian, and especially those of the Soviet Union.
3. Standards were established for electrical switchboards, placing conductors in tubes, internal installations, liaison clamps and other spare parts for the mounting of conductors on poles, cross communication, classification of electric lines, maintenance of lines, characteristics of conductors, and establishing definitions for power installed in electrical controls.
4. Examples of standards:
- Standards for universal clamps type "Unimax" without claws, were chosen from the catalogue of W. Hoffman. The number of the catalogue has been reduced to a lower number which can be used for all conductors. They established material from which clamps should be made, screws, and layers of protecting material against corrosion.
  - The size of the marble board for switchboards now depends on the number of circuits, the size of the holes in the plate, their diameter, the distance between them, and the ties behind the board.
  - The standard for laying conductors in tubes for interior installation is based on tables fixing the minimum dimensions for the tubes according to the number and type of conductors used. The smallest dimensions possible are chosen to economize material, but consideration must be given to the insulation of the wires when they are drawn through the tubes.

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- d. The standard for insulators must consider insulating supports, and the passing of insulations through walls and rolls. Insulators are usually taken from the Krausental factory catalogue.
- e. Standards for tension considers the tension permitted in the transmission of electrical energy. In this case tensions of 1,000, 3,000, 6,000, 10,000, 30,000, and 110,000 volts are permitted. Tensions of 15,000 volts are not permitted except for repairs and old installations.

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